



# IPv6 Activities in India

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# Internet Enablers in India

- Policies
  - Easy ISP licensing
  - Access to under-sea fibre on the west coast
  - VoIP opened up from 1 April 2002
  - Mobile phone companies provide access
- Competitiveness
  - About 300 ISPs licensed; 53 operational
  - Mobile phone companies join in
- Increased local access points
  - Cable, metro-ethernet, ISDN-BRI, dial-up

# What can v6 enable ?

- E-governance – *security, scalability*
  - Karnataka and Andhra Pradesh States
    - filing of grievances with the local government
    - filing tax returns
    - communications with various ministries
  - Internet kiosks at various parts of these states – *end-to-end services, scalability*
    - basic internet connectivity
    - access provided at STD (local phone) booths

# What can v6 enable ?

- Falling internet connectivity charges - *scalability*
  - growing number of internet subscribers
  - falling revenues

So when is the revenue realisation?
- Opening up of the ISP market + disinvestment of government PSU (VSNL) - *scalability*
- Opening up of Internet gatewaying (satellite uplinks, fiber etc.) - *scalability, end-to-end services*

## What can v6 really enable ?

- High growth in the (pseudo) Mobile Internet market
  - Mobile service providers offering SMS based information access like news, astro, sports and even email
- Cable internet access & metro-ethernets picking up in Metros like Mumbai, Bangalore, Delhi and Hyderabad

# ... we have come a long way

- Incorporation as a non-profit society in Sep 2000
- Inaugural Global Summit Jan 3-5, 2001
  - 200+ participants, 50+ companies
- Formation of E&A Working Group (charter)

# ... we have come a long way

- ... and then many Q's on Business Case
- October Interop event - 6 vendors
  - An experiment: The CEO roundtable
- Global Summit 2002
  - Jan 23-25, 2002
  - CEO Roundtable: talk + panel discussion = Huge success

# The way ahead

- Stepped up E&A activities
  - volunteers?
- 6IG - IPv6 Interest Group
- Deployment, deployment, deployment
- Bangalore IPv6 Metro network
- Constitution of the Projects WG
  - academia/industry interaction





Thank you!